

```

yrs=( 9495 9596 9697 9798 9899 9900 0001 0102 0203 0304 0405 0506 0607 0708 0809 0910 1011
1112 1213 )

if [ "$1" = "" ]; then
    echo "Enter start year"
    read startyr
else
    startyr=$1
fi
if [ "$2" = "" ]; then
    echo "Enter start chunk"
    read startchunk
else
    startchunk=$2
fi
if [ "$3" = "" ]; then
    echo "Enter end year"
    read endyr
else
    endyr=$3
fi
if [ "$4" = "" ]; then
    echo "Enter end chunk"
    read endchunk
else
    endchunk=$4
fi
if [ "$5" = "" ]; then
    echo "Enter restart (0 for runs starting in 0809, 1 for runs starting in 9495)"
    read restart
else
    restart=$5
fi
if [ $restart -eq 1 ]; then
    if [ "$6" = "" ]; then
        echo "Enter prevyr"
        read prevyr
    else
        prevyr=$6
    fi
    if [ "$7" = "" ]; then
        echo "Enter prev chunk # in ddd format"
        read prevchunkmo
    else
        prevchunkmo=$7
    fi
fi
chunk=$startchunk

```

```

kk=0
nn=999
nn2=999
doruns=1
while [ $kk -lt ${#yrs[@]} ]; do

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if [ ${yrs[$kk]} -eq ${startyr} ]; then
    nn=$kk
fi
if [ ${yrs[$kk]} -eq ${endyr} ]; then
    nn2=$kk
fi
kk=`expr $kk + 1`
done;
if [ $nn -eq 999 ]; then
    echo "${startyr} is not a valid start year. Please fix and resubmit."
    doruns=0
fi
if [ $nn2 -eq 999 ]; then
    echo "${endyr} is not a valid end year. Please fix and resubmit."
    doruns=0
fi
echo $nn $nn2 $doruns

```

mkdir OUTPUT

```

while [ $nn -le ${nn2} -a ${doruns} -eq 1 ]; do
    cp -f ..//timestep.inp ${yrs[$nn]} timestep.inp
    lines=`wc timestep.inp | awk '{print $1}'`
    lines=`expr ${lines} - 1`
    if [ $nn -eq ${nn2} ]; then
        lastch=$endchunk
    else
        lastch=${lines}
    fi
    year=${yrs[$nn]}
    dorun=1

    while [ ${dorun} -eq 1 ]; do
        tail -${lines} timestep.inp > tmp1.out
        awk '{print $2}' tmp1.out > tmp2.out
        chunkmo=`sed -n ${chunk},${chunk}p tmp2.out`
        if [ ${chunk} -eq 1 ]; then
            ndays=${chunkmo}
        else
            ndays=`expr ${chunkmo} - ${prevchunkmo}`
        fi

        prevmmmo=`echo ${prevchunkmo} | awk '{printf "%04i",$0}'`
        mmmo=`echo ${chunkmo} | awk '{printf "%04i",$0}'`
        echo Running ${year}_${mmmo}

        if [ ${restart} -eq 1 ]; then
            lzcat ..//RESTART/restart.${prevyr}_${prevmmmo}.lzma > restart
            sed s"/SED_NUMDAYS/${ndays}"/ editscour_restart_rev.f > tmp.f
            pgf95 -byteswapio -Mextend tmp.f; ./a.out
        else
            if [ -s scourcells_rev.out ]; then
                rm scourcells_rev.out
            fi
        fi
    done;
done;

```

```
touch scourcells_rev.out
restart=1
fi
mv -f scourcells_rev.out OUTPUT/scourcells_rev.out.${year}_${mmmo}
lzma -1 -f OUTPUT/*.${year}_${mmmo}

if [ $chunk -eq $lastch ]; then
    dorun=0
fi

prevchunkmo=$chunkmo
chunk=`expr $chunk + 1`
prevyr=${yrs[$nn]}
done;

nn=`expr $nn + 1`
chunk=1
done; # done yrs
```